

More Guidelines:

The promised content:

Embeddeed Systems

- Signals Analog Vs Digital
- Intro to Embedded systems and Microcontrollers
- I/O
- PWM & Motors
- Interrupts
- Timers
- LCD / Keypad + mini project

MID - YEAR TRAINING
WHERE EVERYTHING BEGINS



EL-NEKHELY Electronics Mall
محل الإلكترونيات



IEEE
Tanta Student Branch



For further learning:

- Analog to Digital Converter (ADC).
- Analog Comparator.
- Communication Protocols:
 - Serial Communication Protocols:
 - UART/USART.
 - SPI.
 - I2C.
- C Language: The C Programming Language Book/C How to program, <https://goo.gl/tR9ty7>, <https://goo.gl/J1roG1>
- Real Time Operating System (RTOS): <https://goo.gl/uzmizT>, <https://goo.gl/8ncn3g>
- Raspberry PI: <https://goo.gl/eX2h5f> , <https://goo.gl/wqcv5i>
- Linux: <https://goo.gl/eX2h5f> , <https://goo.gl/4ABRn8>
- Python: <https://goo.gl/pTVJRA>

Some Learning Sources:

- Shape the world “Introduction”:
<https://goo.gl/UbXfNQ>
<https://goo.gl/dXLfu0>
- Introduction to Embedded Systems: <https://goo.gl/R8htVp>, <https://goo.gl/bPGmSb>
- UNC Charlotte Embedded Systems course “Introduction”: <https://goo.gl/ccwCGB>
- Basic Electronics (Walid Issa): Make – Electronics Book (ch.2-ch.4), <https://goo.gl/mXj98k>
- AVR Mazidi Book.
- Embedded Microcomputer Systems Real Time Interfacing Book.
- Design Patterns for Embedded Systems in C Book.
- Data Structures and Algorithms: Data Structures and Algorithms made easy- C Book.
- Problem Solving: <https://goo.gl/MQvdTN>